

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Not for submission under 37 CFR 1.99)	Application Number		10594185
	Filing Date		2006-09-25
	First Named Inventor	Joseph B. Schlenoff	
	Art Unit		
	Examiner Name		
Attorney Docket Number		FSU 70008.3	

U.S. PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	3467604		1969-09-16	Michaels	
	2	4169023		1979-09-25	Sata et al.	
	3	4501835		1985-02-26	Berke	
	4	4654235		1987-03-31	Effenberger et al.	
	5	5208111		1993-05-04	Decher et al.	
	6	5711915		1996-01-27	Siegmund et al.	
	7	5807636		1996-09-15	Sheu et al.	
	8	5939323		1999-08-17	Valentini et al.	

Receipt date: 02/23/2007

Application Number	10594185	10594185 - GAU: 4131
Filing Date	2006-09-25	
First Named Inventor	Joseph B. Schlenoff	
Art Unit		
Examiner Name		
Attorney Docket Number	FSU 70008.3	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

9	6402918	B1	2002-06-11	Schlenoff et al.	
10	6468657	B1	2002-10-22	Hou et al.	
11	6610789	B2	2003-08-26	Watakabe et al.	
12	6841054	B2	2005-01-11	Schlenoff et al.	
13	6860980	B2	2005-03-01	Locascio et al.	
14	7101947	B2	2006-09-05	Schlenoff et al.	

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

**U.S.PATENT APPLICATION PUBLICATIONS**

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20030078388	A1	2003-04-24	Basey et al.	
	2	20030215626	A1	2003-11-20	Hiller et al.	
	3	20040022691	A1	2004-02-05	Allen et al.	

Receipt date: 02/23/2007

Application Number	10594185	10594185 - GAU: 4131
Filing Date	2006-09-25	
First Named Inventor	Joseph B. Schlenoff	
Art Unit		
Examiner Name		
Attorney Docket Number	FSU 70008.3	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Not for submission under 37 CFR 1.99)

4	20040060481	A1	2004-04-01	Schlenoff	
5	20040084312	A1	2004-05-06	Warner et al.	
6	20040149572	A1	2004-08-05	Schlenoff et al.	
7	20040265603	A1	2004-12-30	Schlenoff	
8	20050025675	A1	2005-02-03	Schlenoff et al.	
9	20050282925	A1	2005-12-22	Schlenoff et al.	
10	20060065529	A1	2006-03-30	Schlenoff et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

**FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup> j	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button.

**NON-PATENT LITERATURE DOCUMENTS**

Application Number	10594185	10594185 - GAU: 4131
Filing Date	2006-09-25	
First Named Inventor	Joseph B. Schlenoff	
Art Unit		
Examiner Name		
Attorney Docket Number	FSU 70008.3	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Not for submission under 37 CFR 1.99)

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	BARKER, S. L. R., et al., "Control of Flow Direction in Microfluidic Devices with Polyelectrolyte Multilayers," Analytical Chemistry, December 15, 2000, Pages 5925-5929, Volume 72, Number 24	<input type="checkbox"/>
	2	CARUSO, F., et al., "Coated Colloids: Preparation, Characterization, Assembly and Utilization," Chapter 12, Multilayer Thin Films, 2003, Pages 331-362	<input type="checkbox"/>
	3	CHEN, W., et al., "Layer-by-Layer Deposition: A Tool for Polymer Surface Modification," Macromolecules, 1997, Pages 78-86, Volume 30, Number 1	<input type="checkbox"/>
	4	CHENG, Y., et al., "Ultrathin Polypeptide Multilayer Films for the Fabrication of Model Liquid/Liquid Electrochemical Interfaces," J. Phys. Chem. B, 1999, Pages 8726-8731, Volume 103, Number 41	<input type="checkbox"/>
	5	DAI, J., et al., "Controlling the Permeability of Multilayered Polyelectrolyte Films Through Derivatization, Cross-Linking, and Hydrolysis," Langmuir, 2001, Pages 931-937, Volume 17, Number 3	<input type="checkbox"/>
	6	DECHER, G., "Fuzzy Nanoassemblies: Toward Layered Polymeric Multicomposites," Science, August 29, 1997, Pages 1232-1237, Volume 277	<input type="checkbox"/>
	7	DECHER, G., "Polyelectrolyte Multilayers, An Overview," Chapter 1, Multilayer Thin Films, 2002, Pages 1-46	<input type="checkbox"/>
	8	DELONGCHAMP, D. M., et al., "Fast Ion Conduction in Layer-by-Layer Polymer Films," Chem. Mater., 2003, Pages 1165-1173, Volume 15, Number 5	<input type="checkbox"/>
	9	DEYOUNG, J. P., et al., "Synthesis of Fluoropolymers in Liquid and Supercritical Carbon Dioxide Solvent Systems," Chapter 13, Fluoropolymers 1 Synthesis, 1999, Pages 191-205	<input type="checkbox"/>
	10	DURSTOCK, M. F., et al., "Dielectric Properties of Polyelectrolyte Multilayers," Langmuir, 2001, Pages 7865-7872, Volume 17, Number 25	<input type="checkbox"/>

Application Number	10594185	10594185 - GAU: 4131
Filing Date	2006-09-25	
First Named Inventor	Joseph B. Schlenoff	
Art Unit		
Examiner Name		
Attorney Docket Number	FSU 70008.3	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Not for submission under 37 CFR 1.99)

11	FRIEND, R. H., et al., "Electroluminescence in Conjugated Polymers," Chapter 29, Handbook of Conducting Polymers, 1998, Pages 823-845	<input type="checkbox"/>
12	GOOD, R. J., "Contact Angle, Wetting, and Adhesion: A Critical Review," J. Adhesion Sci. Technol., 1992, Pages 1269-1302, Volume 6, Number 12	<input type="checkbox"/>
13	THOMPSETT, D., "Catalysts for the Proton Exchange Membrane Fuel Cell," Chapter 6, Fuel Cell Technology Handbook, 1989, Pages 6-1 - 6-23	<input type="checkbox"/>
14	HSIEH, M. C., et al., "Surface "Priming" for Layer-by-Layer Deposition: Polyelectrolyte Multilayer Formation on Allylamine Plasma-Modified Poly(tetrafluoroethylene)," Macromolecules, 1997, Pages 8453-8458, Volume 30, Number 26	<input type="checkbox"/>
15	HYDE, F. W., et al., "Comparison of Fluorinated Polymers Against Stainless Steel, Glass and Polypropylene in Microbial Biofilm Adherence and Removal," Journal of Industrial Microbiology and Biotechnology, July 15, 1997, Pages 142-149, Volume 19	<input type="checkbox"/>
16	ILER, R.K., "Multilayers of Colloidal Particles," Journal of Colloid and Interface Science, 1966, Pages 569-594, Volume 21	<input type="checkbox"/>
17	JISR, R. M., et al., "Hydrophobic and Ultrahydrophobic Multilayer Thin Films from Perfluorinated Polyelectrolytes," Angew. Chem. Int. Ed., 2005, Pages 782-785, Volume 44	<input type="checkbox"/>
18	KOZLOVSKAYA, V., et al., "Hydrogen-Bonded Polymer Capsules Formed by Layer-by-Layer Self-Assembly," Macromolecules, 2003, Pages 8590-8592, Volume 36, Number 23	<input type="checkbox"/>
19	LOSCHKE, M., et al., "Detailed Structure of Molecularly Thin Polyelectrolyte Multilayer Films on Solid Substrates as Revealed by Neutron Reflectometry," Macromolecules, 1998, Pages 8893-8906, Volume 31, Number 25	<input type="checkbox"/>
20	MAMEDOV, A. A., et al., "Free-Standing Layer-by-Layer Assembled Films of Magnetite Nanoparticles," Langmuir, 2000, Pages 5530-5533, Volume 16, Number 13	<input type="checkbox"/>
21	MICHAELS, A. S., "Polyelectrolyte Complexes," Industrial and Engineering Chemistry, October 1965, Pages 32-40, Volume 57, Number 10	<input type="checkbox"/>

Application Number	10594185	10594185 - GAU: 4131
Filing Date	2006-09-25	
First Named Inventor	Joseph B. Schlenoff	
Art Unit		
Examiner Name		
Attorney Docket Number	FSU 70008.3	

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Not for submission under 37 CFR 1.99)

22	ONER, D., et al., "Ultrahydrophobic Surfaces. Effects of Topography Length Scales on Wettability," Langmuir, 2000, Pages 7777-7782, Volume 16, Number 20	<input type="checkbox"/>
23	PARK, J., et al., "Stamping of Fluorinated Copolymers for Microfluidic Applications," Polymer Preprints, 2003, Pages 1-2, Volume 44, Number 1	<input type="checkbox"/>
24	ROSIDIAN, A., et al., "Ionic Self-Assembly of Ultrahard ZrO <sub>2</sub> /Polymer Nanocomposite Thin Films," Advanced Materials, 1998, Pages 1087-1091, Volume 10, Number 14	<input type="checkbox"/>
25	SALLOUM D. S., et al., "Vascular Smooth Muscle Cells on Polyelectrolyte Multilayers: Hydrophobicity-Directed Adhesion and Growth," Biomacromolecules, 2005, Pages 161-167, Volume 6, Number 1	<input type="checkbox"/>
26	SCHLENOFF, J. B., et al., "Sprayed Polyelectrolyte Multilayers," Langmuir, 2000, Pages 9968-9969, Volume 16, Number 26	<input type="checkbox"/>
27	THOMPSETT, D., "Catalysts for the Proton Exchange Membrane Fuel Cell," Chapter 6, Fuel Cell Technology Handbook, 1989, Pages 6-1 - 6-23	<input type="checkbox"/>
28	YANG, B., et al., "Multilayered Membranes with Suppressed Fuel Crossover for Direct Methanol Fuel Cells," Electrochemistry Communications 6, 2004, Pages 231-236	<input type="checkbox"/>
29	YOO, D., et al., "Controlling Bilayer Composition and Surface Wettability of Sequentially Absorbed Multilayers of Weak Polyelectrolytes," Macromolecules, 1998, Pages 4309-4318, Volume 31, Number 13	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

**EXAMINER SIGNATURE**

Examiner Signature	/Irina Krylova/	Date Considered	02/02/2009
--------------------	-----------------	-----------------	------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.